

FIG. 1a

A1	1
$\overline{A1}$	2
A1	3
$\overline{A1}$	4

FIG. 1b

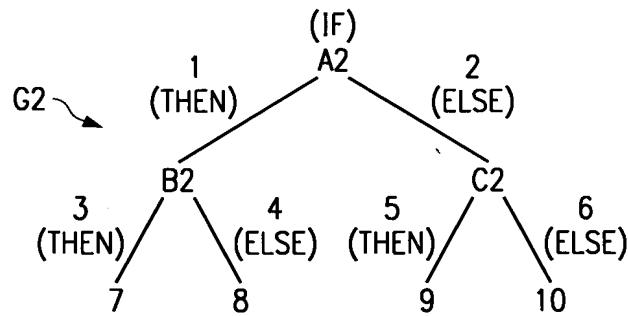


FIG. 2a

G2

A2	AW1
1	E1 <sub>0</sub>
2	E1 <sub>2</sub>
B2	E1 <sub>3</sub>
C2	E1 <sub>4</sub>
3	
4	
5	
6	⋮
7	
8	
9	
10	E1 <sub>11</sub>

FIG. 2b

G2

A2	AW1
1	0 E1 <sub>1</sub>
2	1 E1 <sub>2</sub>
B2	0
C2	1
3	0
4	0
5	1
6	1
7	0
8	0
9	1
10	1 E1 <sub>11</sub>

(A2)

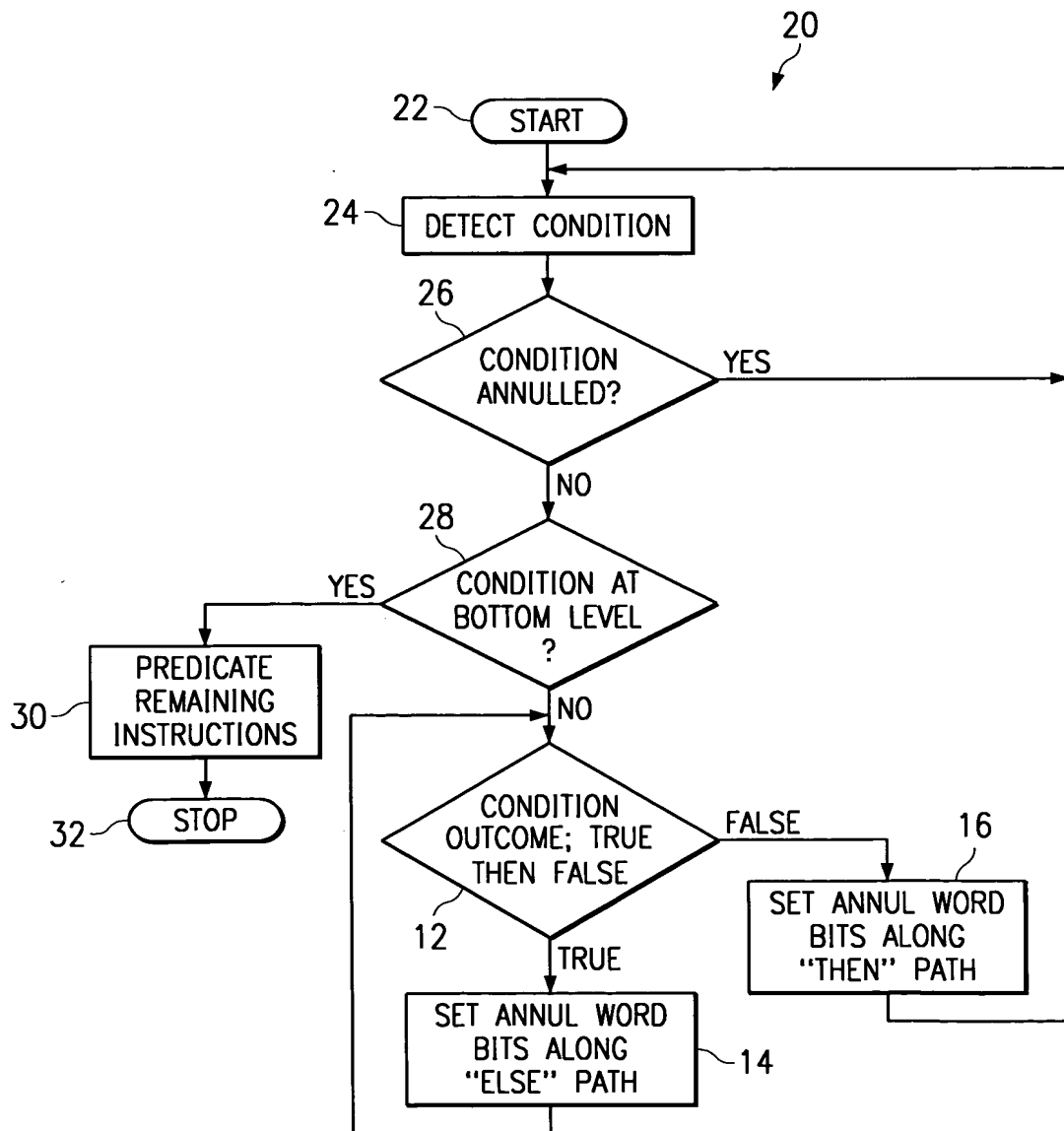
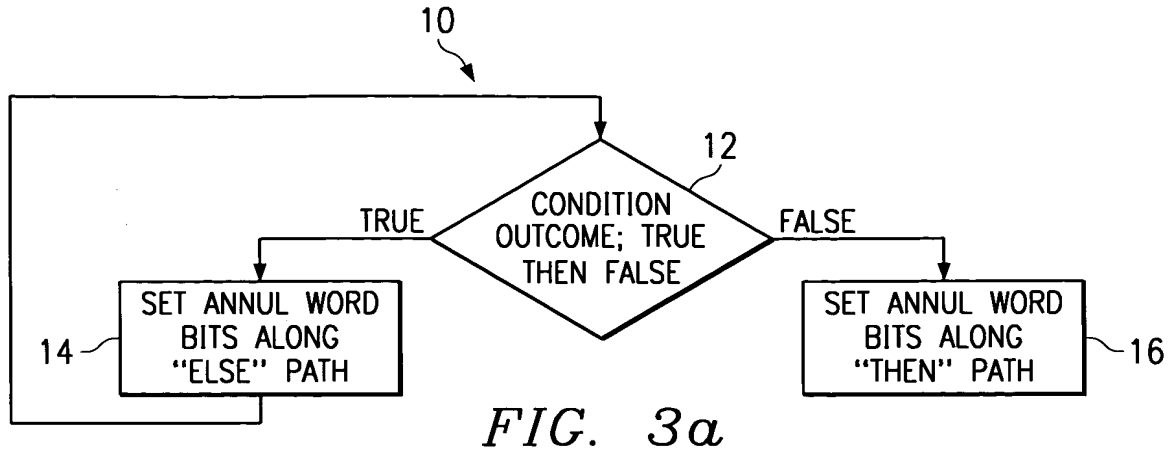
FIG. 2c

G2

A2	AW1
1	1 E1 <sub>1</sub>
2	0 E1 <sub>2</sub>
B2	1
C2	0
3	1
4	1
5	0
6	0
7	1
8	1
9	0
10	0 E1 <sub>11</sub>

FIG. 2d

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B2	3
$\overline{B2}$	4
B2	7
$\overline{B2}$	8

FIG. 4a

C2	5
$\overline{C2}$	6
C2	9
$\overline{C2}$	10

FIG. 4b

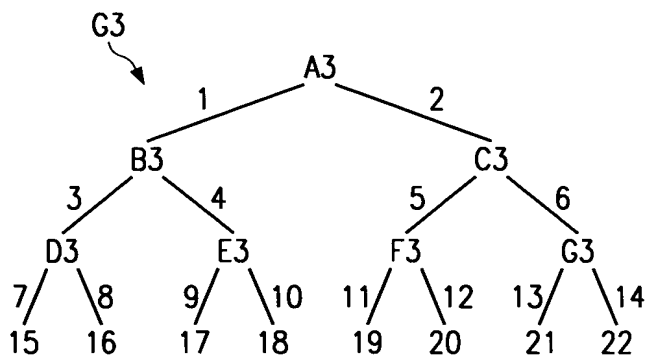


FIG. 5a

A3	AW2
1	0
2	1
B3	0
C3	1
3	0
4	0
5	1
6	1
D3	0
E3	0
F3	1
G3	1
7	0
8	0
9	0
10	0
11	1
12	1
13	1
14	1
15	0
16	0
17	0
18	0
19	1
20	1
21	1
22	1

(A3)

FIG. 5b

A3	AW2
1	1
2	0
B3	1
C3	0
3	1
4	1
5	0
6	0
D3	1
E3	1
F3	0
G3	0
7	1
8	1
9	1
10	1
11	0
12	0
13	0
14	0
15	1
16	1
17	1
18	1
19	0
20	0
21	0
22	0

( $\overline{A3}$ )

FIG. 5c

2025 RELEASE

A3	AW2
1	0
2	1
B3	0
C3	1
3	0
4	1
5	1
6	1
D3	0
E3	1
F3	1
G3	1
7	0
8	0
9	1
10	1
11	1
12	1
13	1
14	1
15	0
16	0
17	1
18	1
19	1
20	1
21	1
22	1

(A3, B3)

FIG. 5d

A3	AW2
1	0
2	1
B3	0
C3	1
3	1
4	0
5	1
6	1
D3	1
E3	0
F3	1
G3	1
7	1
8	1
9	0
10	0
11	1
12	1
13	1
14	1
15	1
16	1
17	0
18	0
19	1
20	1
21	1
22	1

(A3,  $\overline{B3}$ )

FIG. 5e

A3	AW2
1	1
2	0
B3	1
C3	0
3	1
4	1
5	1
6	0
D3	1
E3	1
F3	1
G3	0
7	1
8	1
9	1
10	1
11	1
12	1
13	0
14	0
15	1
16	1
17	1
18	1
19	1
20	1
21	0
22	0

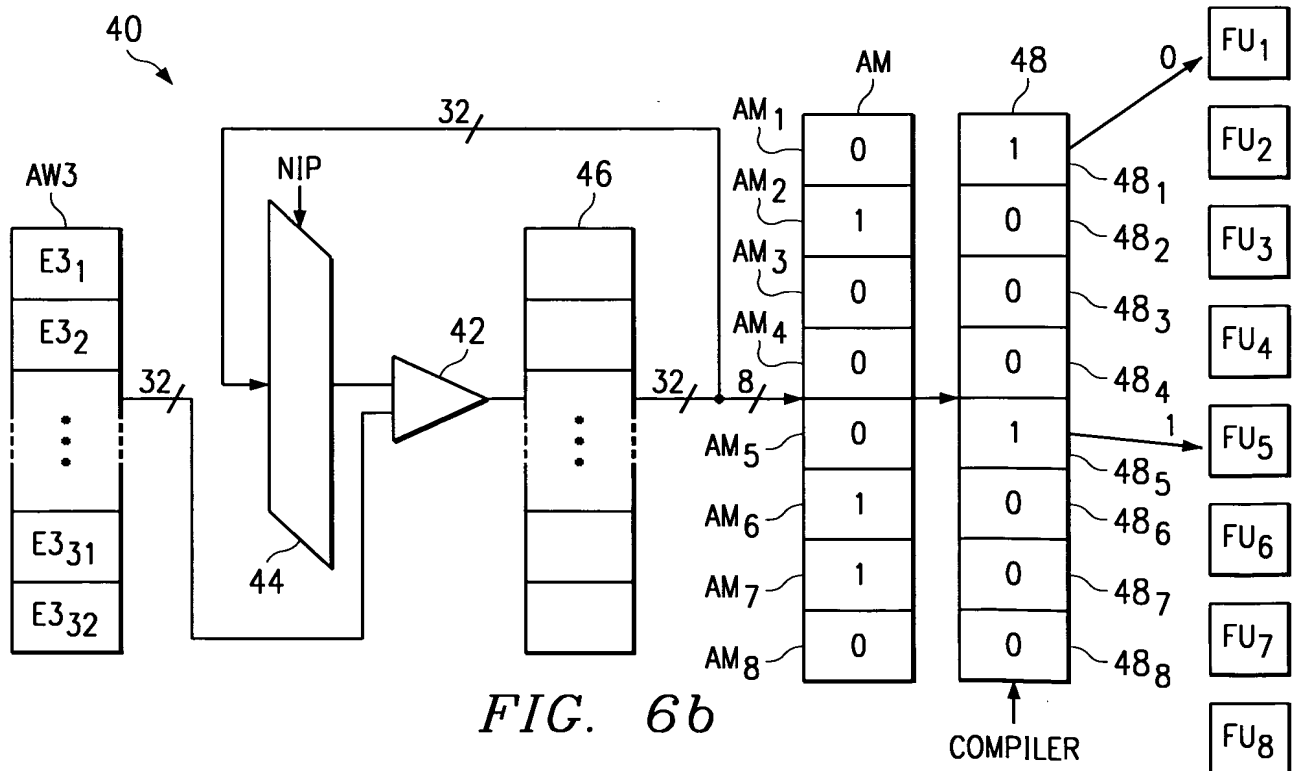
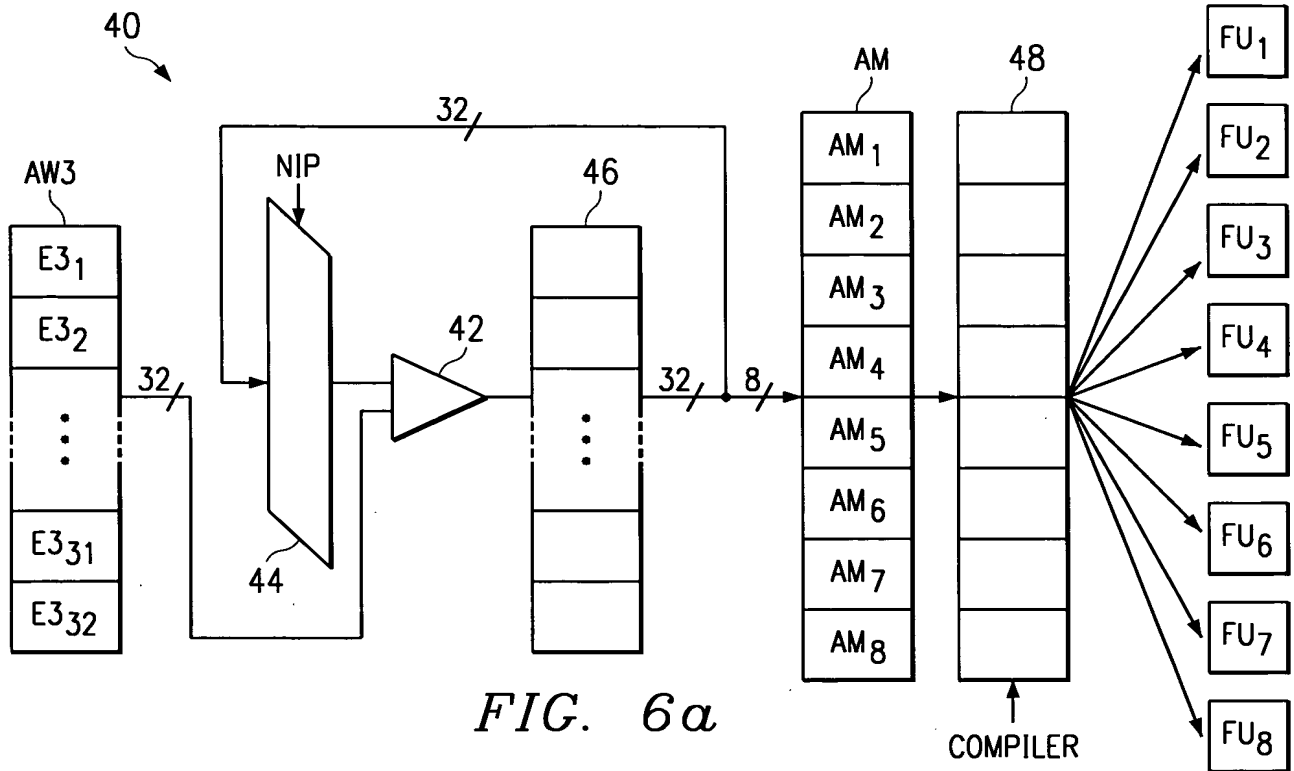
( $\overline{A3}$ ,  $\overline{C3}$ )

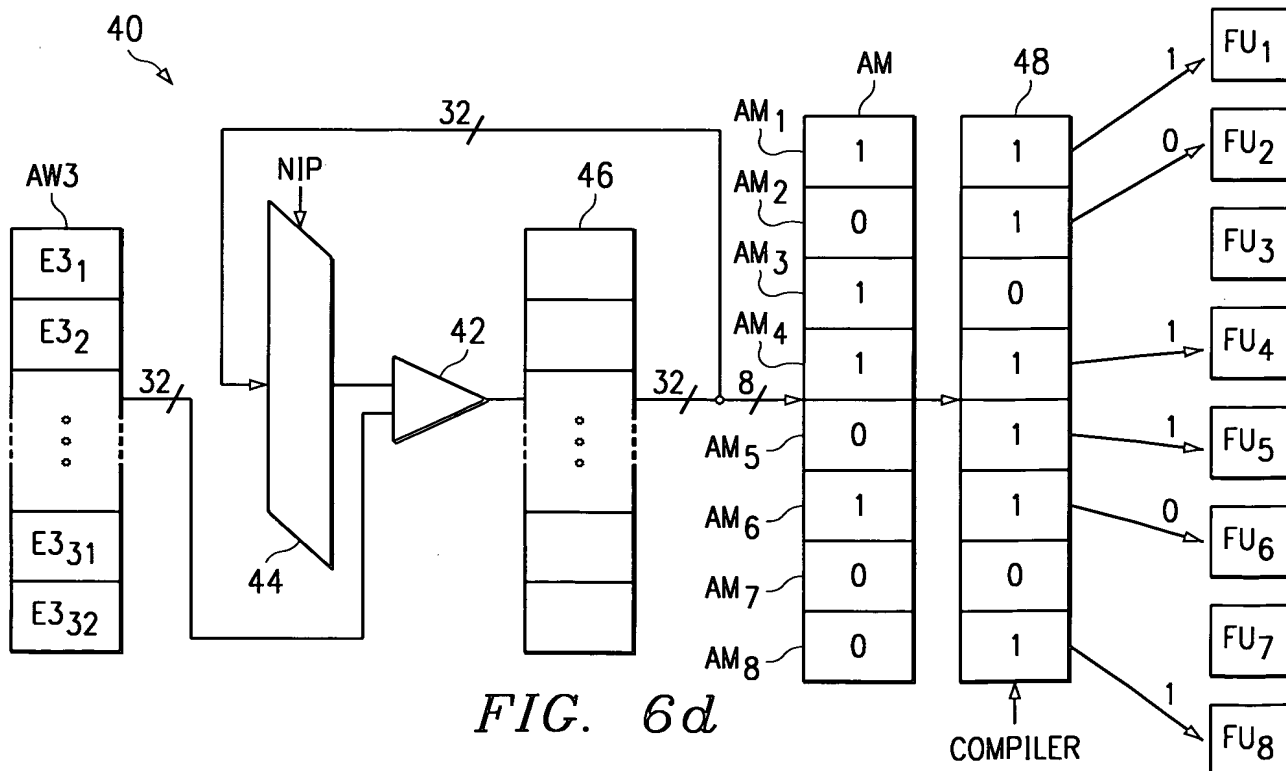
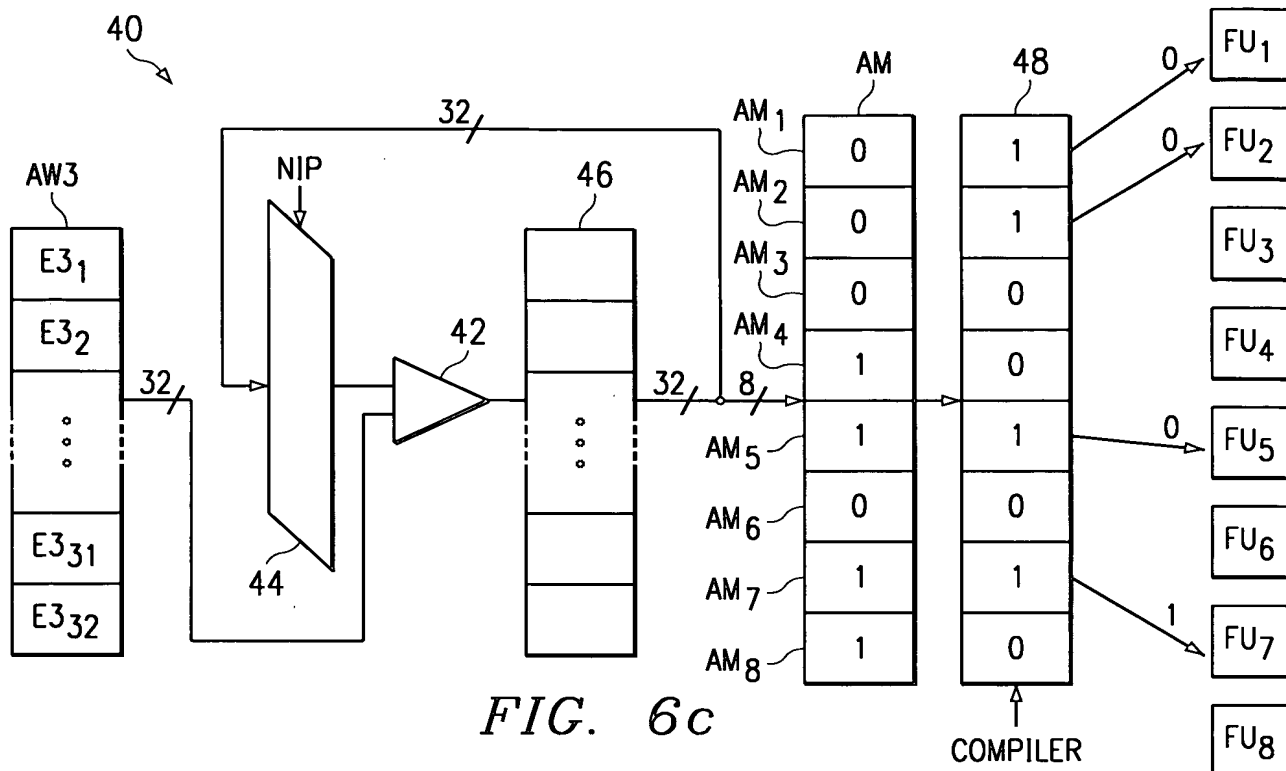
FIG. 5f

A3	AW2
1	1
2	0
B3	1
C3	0
3	1
4	1
5	0
6	1
D3	1
E3	1
F3	0
G3	1
7	1
8	1
9	1
10	1
11	0
12	0
13	1
14	1
15	1
16	1
17	1
18	1
19	0
20	0
21	1
22	1

( $\overline{A3}$ , C3)

FIG. 5g





FUNCTIONAL UNITS	INSTRUCTIONS	ANNUL (AW1)
FU <sub>1</sub>	1	0
FU <sub>5</sub>	2	1
FU <sub>1</sub>	3	0
FU <sub>2</sub>	B2	0
FU <sub>5</sub>	4	0
FU <sub>7</sub>	C2	1
FU <sub>1</sub>	5	1
FU <sub>2</sub>	7	0
FU <sub>4</sub>	9	1
FU <sub>5</sub>	6	1
FU <sub>6</sub>	8	0
FU <sub>8</sub>	10	1

P<sub>1</sub> *FIG. 7*

P<sub>2</sub>

P<sub>3</sub>

*FIG. 8*  
(PRIOR ART)

CLOCK CYCLE	b1 <sub>0</sub>	b2 <sub>0</sub>		
0	b1 <sub>0</sub>	b2 <sub>0</sub>		
1	b1 <sub>1</sub>	b2 <sub>1</sub>		
2	b1 <sub>2</sub>	b2 <sub>2</sub>		
3	b1 <sub>3</sub>	b2 <sub>3</sub>		
4	b1 <sub>4</sub>	b2 <sub>4</sub>		
5	b1 <sub>5</sub>	b2 <sub>5</sub>	b3 <sub>0</sub>	
6	b1 <sub>6</sub>	b2 <sub>6</sub>	b3 <sub>1</sub>	b4 <sub>0</sub>
7	b1 <sub>7</sub>	b2 <sub>7</sub>	b3 <sub>2</sub>	b4 <sub>1</sub>
8	b1 <sub>8</sub>	b2 <sub>8</sub>	b3 <sub>3</sub>	b4 <sub>2</sub>
9	b1 <sub>9</sub>	b2 <sub>9</sub>	b3 <sub>4</sub>	b4 <sub>3</sub>
10	b1 <sub>10</sub>	b2 <sub>10</sub>	b3 <sub>5</sub>	b4 <sub>4</sub>
11	b1 <sub>11</sub>	b2 <sub>11</sub>	b3 <sub>6</sub>	b4 <sub>5</sub>
⋮	⋮	⋮	⋮	⋮
127	b1 <sub>127</sub>	b2 <sub>127</sub>	b3 <sub>122</sub>	b4 <sub>121</sub>
128			b3 <sub>123</sub>	b4 <sub>122</sub>
129			b3 <sub>124</sub>	b4 <sub>123</sub>
130			b3 <sub>125</sub>	b4 <sub>124</sub>
131			b3 <sub>126</sub>	b4 <sub>125</sub>
132			b3 <sub>127</sub>	b4 <sub>126</sub>
133				b4 <sub>127</sub>
134				

*FIG. 9*

CLOCK CYCLE	b1 <sub>0</sub>	b2 <sub>0</sub>	b3 <sub>A</sub>	b4 <sub>A</sub>
0	b1 <sub>0</sub>	b2 <sub>0</sub>	b3 <sub>A</sub>	b4 <sub>A</sub>
1	b1 <sub>1</sub>	b2 <sub>1</sub>	b3 <sub>A</sub>	b4 <sub>A</sub>
2	b1 <sub>2</sub>	b2 <sub>2</sub>	b3 <sub>A</sub>	b4 <sub>A</sub>
3	b1 <sub>3</sub>	b2 <sub>3</sub>	b3 <sub>A</sub>	b4 <sub>A</sub>
4	b1 <sub>4</sub>	b2 <sub>4</sub>	b3 <sub>A</sub>	b4 <sub>A</sub>
5	b1 <sub>5</sub>	b2 <sub>5</sub>	b3 <sub>0</sub>	b4 <sub>A</sub>
6	b1 <sub>6</sub>	b2 <sub>6</sub>	b3 <sub>1</sub>	b4 <sub>0</sub>
7	b1 <sub>7</sub>	b2 <sub>7</sub>	b3 <sub>2</sub>	b4 <sub>1</sub>
8	b1 <sub>8</sub>	b2 <sub>8</sub>	b3 <sub>3</sub>	b4 <sub>2</sub>
9	b1 <sub>9</sub>	b2 <sub>9</sub>	b3 <sub>4</sub>	b4 <sub>3</sub>
10	b1 <sub>10</sub>	b2 <sub>10</sub>	b3 <sub>5</sub>	b4 <sub>4</sub>
11	b1 <sub>11</sub>	b2 <sub>11</sub>	b3 <sub>6</sub>	b4 <sub>5</sub>
⋮	⋮	⋮	⋮	⋮
127	b1 <sub>127</sub>	b2 <sub>127</sub>	b3 <sub>122</sub>	b4 <sub>121</sub>
128	b1 <sub>A</sub>	b2 <sub>A</sub>	b3 <sub>123</sub>	b4 <sub>122</sub>
129	b1 <sub>A</sub>	b2 <sub>A</sub>	b3 <sub>124</sub>	b4 <sub>123</sub>
130	b1 <sub>A</sub>	b2 <sub>A</sub>	b3 <sub>125</sub>	b4 <sub>124</sub>
131	b1 <sub>A</sub>	b2 <sub>A</sub>	b3 <sub>126</sub>	b4 <sub>125</sub>
132	b1 <sub>A</sub>	b2 <sub>A</sub>	b3 <sub>127</sub>	b4 <sub>126</sub>
133	b1 <sub>A</sub>	b2 <sub>A</sub>	b3 <sub>A</sub>	b4 <sub>127</sub>
134				

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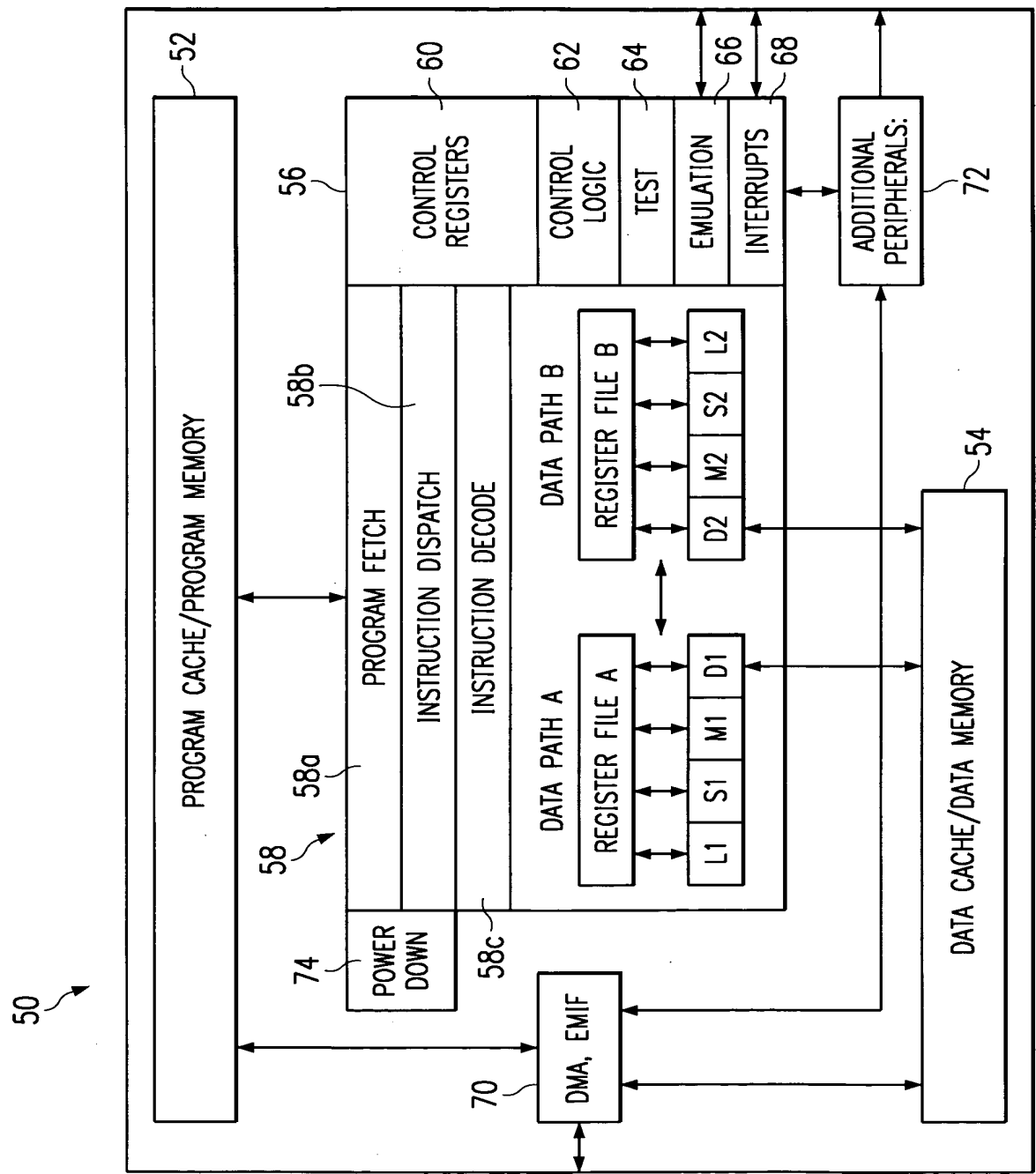


FIG. 10